

Material Safety Data Sheet (MSDS)

Revised 4/1/98

Section 1 - Chemical Product and Company Identification

Lifter-1 Products

A Division of Heartland Corporation
801 N. Meadowbrook Drive
Olathe, KS 66062

Emergency Phone # 24 hr:

Chemtrec. (800) 424-9300 - Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals.
Information Phone #: (913) 829-8100



PRODUCT NAME: LIFTER-1 CARPET STAIN REMOVER (14 oz.)
FORMULA: Mixture
GENERAL CLASS: Aerosol Cleaning Aid

HMIS Rating
Health 2
Flammability 2
Reactivity 1

Section 2 - Composition/Information on Ingredients

Ingredient	CAS #	Wt. Percent Is Less Than	-----Exposure Limits (8 hr TWA)-----		
			ACGIH TLV	OSHA PEL	ACGIH OSHA STEL
2-Butoxyethanol	111-76-2	25.0%	25 ppm	50 ppm	N.E.
Liquefied Petroleum Gas (Propellant)	68476-85-7	10.0%	1000 ppm	1000 ppm	N.E.

(See section 15 for abbreviation legend)

Section 3 - Hazards Identification

AEROSOL SPRAY. PLEASANT ODOR. CAUTION! CONTENTS UNDER PRESSURE. AVOID HEAT AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF INTENTIONALLY INHALED. HARMFUL IF ABSORBED THROUGH SKIN. MAY AFFECT LIVER, KIDNEYS, BLOOD, LYMPHATIC SYSTEM OR CENTRAL NERVOUS SYSTEM. Avoid breathing concentrated vapors. Use with adequate ventilation. Avoid getting on skin, in eyes, and on clothing. Wash thoroughly after handling.

Emergency First Aid Procedures: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention. Wash skin with soap and water and remove contaminated clothing. In case of contact, immediately flush eyes with plenty of water for 15 minutes and get medical attention. If swallowed, do not induce vomiting, drink two glasses of water and get medical attention.

Potential Health Effects:

Primary Routes of Entry: Inhalation, skin and eye contact. **Inhalation:** Excessive inhalation can cause headache, drowsiness, nausea and lack of coordination. Can cause irritation of respiratory tract. **Skin Contact:** Can cause skin irritation. Toxic amounts may be absorbed through the skin with symptoms similar to those under inhalation and ingestion. **Eye Contact:** Liquid sprayed into eyes causes corneal irritation and pain. **Ingestion:** Symptoms are similar to those of inhalation including pain, diarrhea and vomiting. May cause damage to the liver and kidneys.

Chronic Effects: 2-butoxyethanol has caused liver and kidney damage.

Medical Conditions Aggravated by Exposure: Pre-existing respiratory, skin, eye, liver, kidney and lymphatic disorders.

Section 4 - First Aid Measures

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **IF SWALLOWED:** Do not induce vomiting. Give large amounts of water and get medical attention. Never give anything by mouth to an unconscious person. **IF ON SKIN:** Flush skin with plenty of water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists. **IF IN EYES:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Section 5 - Fire Fighting Measures

Flammability Properties: Not flammable per flame projection test.

Extinguishing Media: Carbon dioxide, dry chemical, water fog.

Special Fire Fighting Instructions: Keep fire-exposed containers cool with water spray. In the event of a fire, wear full protective clothing and a MSHA/NIOSH approved self-contained breathing apparatus with full face piece and operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Exposure of containers to extreme heat and flames can cause them to rupture often with violent force and subsequent fire.

Section 6 - Accidental Release Measures

Ventilate area of spill and remove all sources of ignition. Observe all hazards mentioned in Section 3. Wear personal protective equipment specified in Section 8.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Do not smoke or use around open flames or sources of extreme heat. *Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal.* Avoid getting in eyes or on skin and clothing. Do not breathe vapors. Wash thoroughly after handling, and wash contaminated clothing before reuse.

Storage: Store in a cool, dry, ventilated area. Protect from physical damage. Do not store in direct sunlight, near open flames or above temperatures greater than 120 F. Do not place can in hot water or near radiators, stoves or other sources of heat.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls: A system of local and/or general exhaust is recommended to control airborne levels below exposure limits specified in Section 2.

Personal Protection:

Eye Protection: Safety glasses with side shields or chemical goggles are recommended.

Skin Protection: Wear appropriate protective clothing and chemical-resistant gloves to prevent skin contact. Wash thoroughly after handling.

Respiratory Protection: Use in a well-ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

Work/Hygiene Practices: Eye wash facilities should be available. Wash hands before eating and smoking.

Section 9 - Physical and Chemical Properties

Vapor Pressure: 55 psig @ 70 F (propellant)

Vapor Density (air = 1): >1

Specific Gravity (Water = 1): N/D

Evaporation Rate (Butyl Acetate = 1): Less than 1

Boiling Point: -43 F (propellant)

% Volatiles by Volume: N/D

Solubility in water (20 C): miscible

VOC's lbs/gal: N/D

Appearance and Odor: Aerosol spray. Pleasant odor.

Section 10 - Stability and Reactivity

Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not occur.

Conditions to Avoid: Extreme heat, sources of ignition, physical damage to can.

Incompatibilities: Avoid strong oxidizers, strong bases, acids and chlorinated solvents.

Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide and trace amounts of phosgene gas.

Section 11 - Toxicological Information

The following data is for the component: 2-butoxyethanol

Inhalation LC50 (ppm) 4-HR: 450 (RAT)

Acute oral LD50 (mg/kg): 1,480 (RAT)

Acute Dermal LD50 (kg/kg): 490 (RBT)

Irritation, Skin, open, 500 mg: MILD (RBT)

Irritation, Eye, 18 mg: SEVERE (RBT)

Section 12 - Disposal Considerations

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

Section 13 - Transportation Information

DOT Classification: Consumer Commodity ORM-D

Section 14 - Regulatory Information

SARA 302: None found SARA 311/312 Hazard Categories: Immediate (acute), Chronic (delayed). Flammability

SARA 313: Toxic Chemicals: 2-butoxyethanol 25% by wt.

OSHA: Hazardous under criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)

HMIS Hazard Rating: Health - 2 (moderate hazard), Fire Hazard - 2 (moderate hazard),

Reactivity - 1 (low hazard)

California Proposition 65: No components listed.

Section 15 - Other Information

This MSDS complies with OSHA guidelines set by 29 CFR 1910.1200. The foregoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to insure that their personnel have been notified of any changes which may affect them. The data provided on this MSDS are not meant to be used as specifications, only as guideline information as to the safe use of this product. User should refer to applicable laws before use.

N/D - Not Determined

N/E - Not Established

N/A - Not Applicable